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CIA-RDP86-00513R001857810010-0"

TYUTYUNNIKOV, Yu.B.

Determining electric resistance of coals by heating them in a
thin layer. Zav.lab. 22 no.8:958-959 Ag '56. (MLRA 9:11)

1. Ukrainskiy nauchno-issledovatel'skiy uglekhimicheskiy institut.
(Electric resistance) (Coal--Electrical properties)

TYUTYUNNIKOV, Yu.B.

Change in the electric resistance of coal varieties in the course of
thermal and dielectric heating. Khim.i tekhn. topl. no.6:20-25 Je '56.
(MIRA 9:9)

1.Ukrainskiy uglekhimicheskiy institut.
(Coal--Electric properties) (Coke)

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Tyutyunnikov, Yu.B.

ARONOV, S.G., doktor tekhnicheskikh nauk; TYUTYUNNIKOV, Yu.B., kandidat
tekhnicheskikh nauk

Coal heating with high-frequency currents. Stal' 15 no.9:771-776
S '55. (MLRA 8:12)
(Coke industries) Dielectric heating)

LITVINENKO, M.S.; TYUTYUNNIKOV, Yu.B.; SHEPEL', A.V.

Remarks concerning G.P.Govoroi's letter. Koks i khim. no.11: 52-60
'61. (MIRA 15:1)

1. Ukrainskiy uglekhimicheskiy institut.
(Coke-oven gas)

TYUTYUNNIKOV, Yu.B. TSEPURIT, V.Ya.; LUKASHENKO, B.Ya.; SOLDATENKO, I.S.

Experimental and industrial preparation and coking of coals of the
Lvov-Volyn Basin. Koks i khim. no.11:5-8 '61. (MIRA 15:1)

1. L'vovskiy sovnarkhoz (for Tyutyunnikov, TSepurit, Lukashenko).
2. Khar'kovskiy koksokhimicheskiy zavod (for Soldatenko).
(Lvov-Volyn Basin--Coke)

TYUTYUNNIKOV, Yu.B.

Selection of parameters for the automatic control of the moisture of
charges. Koks. i khim. no. 3:9-12 '61. (MIRA 14:4)

1. Ukrainskiy uglekhimicheskiy institut.
(Coal preparation)

KISILEVSKIY, V.V.; VOROTNIK, T.K.; TYUTYUNNIKOVA, T.I.

Simple flame filter photometers, Zav. lab. 24 no. 7:885-887 '58.
(MIRA 11:7)

1. Khar'kovskiy nauchno-issledovatel'skiy institut osnovnoy
khimii i Laboratoriya pochvovedeniya AN USSR.
(Photometers)

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APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001857810010-0"

TYUTYUNNIKOVA, V. A. Cand Agr Sci -- (diss) "The Effectiveness
of free inter-variety ^{re}pollination in red clover." Mos, 1958.
20 pp. (All-Union Sci Res Inst of Fodder im V.R. Vil'yams).
110 Copies.
(KL, 8-58, 107)

AUTHORS: Kisilevsiy, V.V., Vorotnik, T.K., SOV/32-24-7-45/65
Tyutyunnikova, T.I.

TITLE: Simple Flame Filter Photometers (Prostyye plamennyye fil'tr-fotometry)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 7, pp. 885-887 (USSR)

ABSTRACT: Apparatus for the determination of Li, Na, K and Ca were devised which operate with gas-, air-, and petrol-(benzene)-air flames. Because of the pressure fluctuations within the gas supply of towns the gas must be branched off by means of a device shown in a diagram. From it may be seen that the pressure control SPD-100 with a leather membrane is used, which starts a signal system as soon as the gas pressure within the system drops below the desired value. A schematic representation of the filter photometer with a gas flame is also given, which shows that the gas is supplied through a purification system, and that on the other hand the purified air transports the finely disperse sample solution to the flame, with a vessel being devised that collects the coarsely disperse drops. Interference light filters as well as a selenium- or silver sulfide photoelectric cell, respectively,

Card 1/2

• Simple Flame Filter Photometers

SOV/32-24-7-45/65

were used for the determination of the spectral emission of sodium and potassium. The Photo current was measured by means of a mirror galvanometer with a sensitivity of $2.5 \cdot 10^{-9} A$. The scheme operating with petrol or benzene is also given; in principle it is similar to the one described above, with the difference that the gas purification is carried out differently. The burner suggested by Schuhknecht (Ref 1) was found to be the one best suited for this purpose of several burners tested. The relative measuring error of the determination is quoted to be 3%.

There are 3 figures and 5 references, 3 of which are Soviet.

ASSOCIATION: Khar'kovskiy nauchno-issledovatel'skiy institut osnovnoy khimii i Laboratoriya pochvovedeniya Akademii nauk USSR (Khar'kov Scientific Research Institute of Basic Chemistry and the Laboratory of Soil Science AS, Ukrainian SSR)

Card 2/2

Tyutunnikova Ye. V.

57-27-7-25/40

AUTHORS: Voytsekhovskaya, I. A., Golubeva, L. A.,
Tyutyunnikova, Ye. V.

TITLE: Concerning the Problem of the Dielectric Relaxation
Losses in Ionic Crystals. (A Preliminary Report)
[K voprosu o relaksatsionnykh dielektricheskikh
poteryakh v ionnykh kristallakh. (Predvaritel'noye
soobshcheniye)].

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1957, Vol. 27, Nr 7,
pp. 1591-1593 (USSR)

ABSTRACT: The dielectric losses in monocrystals with simplest lattice
were investigated. For this purpose monocrystals with a cross
section of not less than 80 qmm were grown in a potassium-
chloride melt. Pure potassium chloride which was additionally
purified by repeated crystallization was used as raw material.
The measurements of the tangent of the angle of dielectric
losses in the frequency range of from $4 \cdot 10^2$ to 10^6 cycles
showed that in pure crystals a distinctly marked relaxation-
maximum exists at a frequency of about $7 \cdot 10^3$ cycles at
 $t = 20^\circ\text{C}$. On a rise of temperature this maximum is displaced
in the direction of high frequencies. The general character
of the dependence $\text{tg}\delta$ on the frequency, obtained by the

Card 1/2

Concerning the Problem of the Dielectric Relaxation Losses 57-27-7-25/40
in Ionic Crystals. (A Preliminary Report)

experiment, is in good agreement with the curve calculated according to the formula. The activation energy amounted to about 0,3 eV. Besides the dependence $\text{tg}\delta$ on the temperature was here investigated at two frequencies - 10^3 cycles and $5 \cdot 10^4$ cycles - in the temperature range of from -20 to +300°C. The activation energy amounted to about 0,3 eV. The result agrees with that obtained by G. I. Skanavi with regard to the fact that the dielectric losses in crystals of the KC1-types possess a relaxation-nature. Besides KC1-monocrystals with an admixture of a bivalent copper-ion in the form of CuCl_2 were investigated. It is shown that the maximum of $\text{tg}\delta$, caused by the copper-ions, can only occur in the case of a sufficiently high additional concentration or at a sufficiently high temperature.

There are 4 figures and 7 references, 4 of which are Slavic.

SUBMITTED: December 29, 1956

AVAILABLE: Library of Congress
Card 2/2 1. Single crystals-Dielectric properties

84607

24,2400(1144,1162,1385)

S/181/60/002/010/030/051
B019/B056AUTHORS: Voytsekhovskaya, I. A., Golubeva, L. A.,
Tyutynnikova, Ye. V.TITLE: Investigation of the Properties of Alkali-halide Crystals.
The Dielectric Losses in KCl(Ba)-CrystalsPERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 10,
pp. 2536 - 2539

TEXT: tan δ was measured for KCl single crystals, which were activated with bivalent barium ions. Measurements were carried out at

300 - $1.5 \cdot 10^3$ °C and at temperatures between -55 and +60°C. It was found that the dielectric losses had a relaxation-character. tan δ as a function of the frequency has three maxima. The first maximum is caused by dipole-oscillations, which are formed in the association of Ba⁺⁺ with cationic vacancies of the medium. The second maximum may be caused by the same dipole oscillations, if the impurity ions form a second lattice, which is built into the KCl-lattice. The existence of the third

Card 1/2

84607

Investigation of the Properties of Alkali-halide Crystals. The Dielectric Losses in KCl(Ba)-Crystals S/181/60/002/010/030/051 B019/B056

maximum could not be explained, and requires further investigation. From the dependence of $\tan \delta$ on the direction of the growth of the crystals, the conclusion is drawn that the impurity concentration during crystal growth was non-uniformly distributed. With the help of the formula by Lidiard (Ref.6), the impurity concentration is estimated as being $3.5 \cdot 10^{-3}$ mole% from $\tan \delta$. This work was carried out at the Kafedra eksperimental'noy fiziki Leningradskogo politekhnicheskogo instituta imeni M. I. Kalinina (Chair of Experimental Physics of Leningrad Polytechnic Institute imeni M. I. Kalinin). There are 2 figures and 6 references: 2 Soviet and 1 Japanese.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im.
M. I. Kalinina (Leningrad Polytechnic Institute imeni
M. I. Kalinin)

SUBMITTED: November 19, 1959 (initially), February 18, 1960
(after revision)

Card 2/2

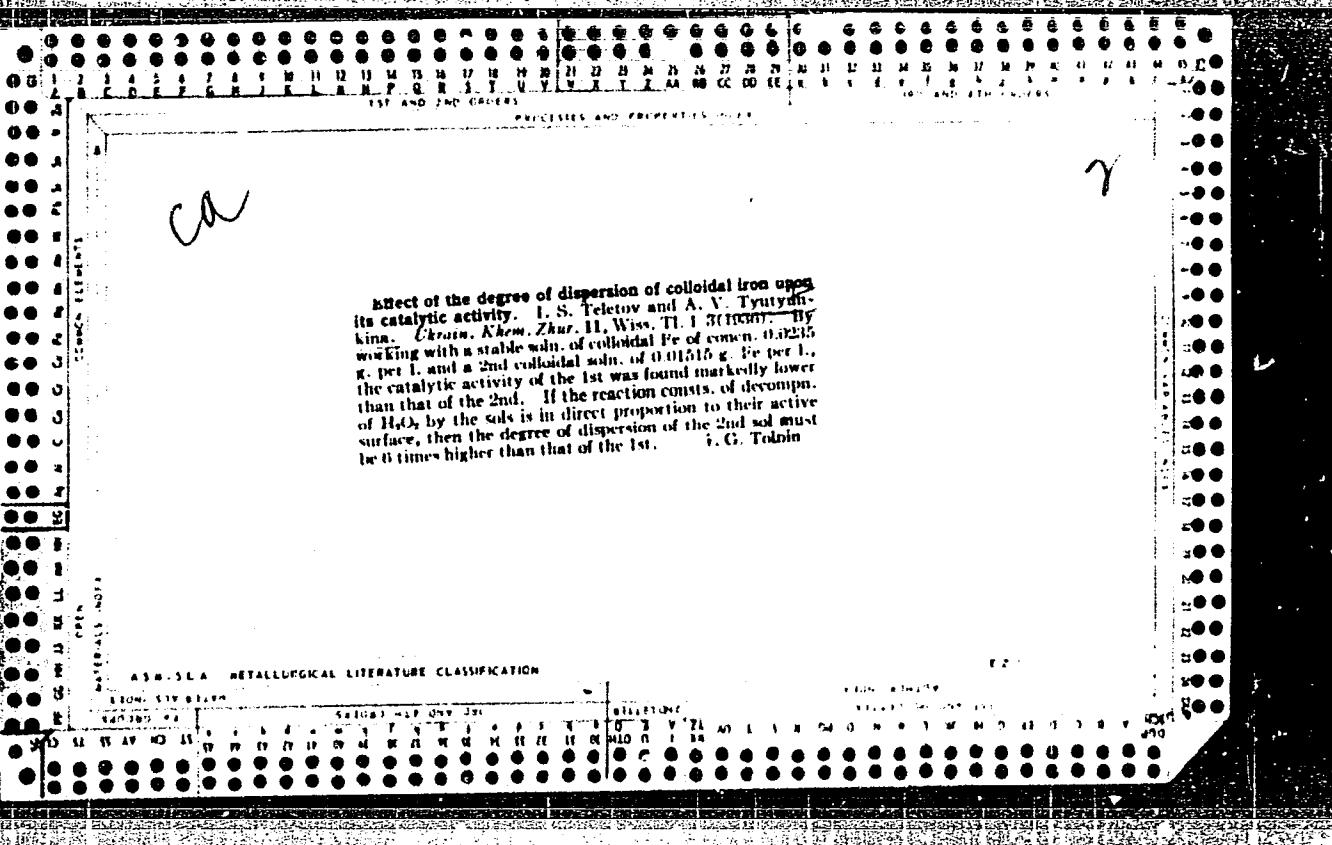
TYUTYNIKOVA, YE. V. and ZAIKIND, YU S.

On Addition of Hydrogen to Acetylene Derivatives. XLIII. Catalytic Hydrogenation of Symmetrical Dimethyl Dihexyl Butynediol, page 1302, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1680-1686.

Laboratory of Organic Chemistry, Leningrad State Pedagogical Inst imeni A. I. Gertsen

VOYTSKHOVSKAYA, I.A.; GOLUBEVA, L.A.; TYUTYUNNIKOVA, Ye.V.

Relaxation dielectric loss in ionic crystals; preliminary report.
Zhur. tekh. fiz. 27 no.7:1591-1593 Jl '57. (MILIA 10:9)
(Ionic crystals)



TYUTYUNOV, I.A., doktor geol.-min. nauk, otv. red.; SHEYNMAN, V.S.,

[Cryogenic processes in soils and rocks] Kriogennye pro-
tsessy v pochvakh i gornykh porodakh. Moskva, Nauka,
1965. 162 p.
(MIRA 19:1)

1. Moscow. Nauchno-issledovatel'skiy institut osnovaniy i
podzemnykh sooruzheniy.

TYUTYUNOVA, F.I.; ANTIPOV-KARATAYEV, I.N.

Exchange adsorption of potassium in soils and clays at low temperatures.
Pochvovedenie no.9:31-40 S '65.

(MIRA 18:10)

1. Pochvennyy institut imeni Dokuchayeva.

TYUTYUNOV, I.A.

Migration of water in the ground. Issl.po fiz. i mekh. merzl. grun.
no.4:7-21 '61. (MIRA 14:12)

(Frozen ground)

TYUTYUNOV, I.A.; DERBENEVA, M.M.

Some physicochemical and morphological properties of soils and permanently frozen rocks in the Far North. Issl.po fiz. i mekh. merzl. grun. no.4:86-99 '61. (MIRA 14:12)
(Iireleekh Valley--Frozen ground)

TYUTYUNOV, I.A.

Engineering geological properties of permanently frozen hard rocks
in the region of the "Mir" pipe. Issl.po fiz. i mekh. merzl. grun.
no.4:216-241 '61. (MIRA 14:12)

(Frozen ground) (Geochemistry)

TYUTYUNOV, Ivan Alekseyevich, doktor geol.-miner. nauk; NERSESOVA,
Zinaida Aleksandrovna; STOLYAROV, A.G., red.izd-va;
RYLINA, Yu.V., tekhn. red.

[The nature of the movement of water in soils during freezing,
and the bases of physical and chemical methods of
controlling heave] Priroda migratsii vody v gruntakh pri
promerzani i osnovy fiziko-khimicheskikh priemov bor'by s
pucheniem. Moskva, Izd-vo AN SSSR, 1963. 157 p.
(MIRA 16:10)

(Frozen ground)

AKIMOV, Anatoliy Trofimovich; TYUTYUNOV, Ivan Alekseyevich;
PONOMAREV, V.M., doktor geol.-mineral.nauk, otv.red. [deceased];
KUDASHEVA, I.G., red.izd-va; GUSEVA, A.P., tekhn.red.

[Permanently frozen ground and microrelief in the Pechora coal
basin] Mnogoletnemeryzlye porody i mikrorel'ef v Pechorskem
ugol'nom basseine. Moskva, Izd-vo Akad.nauk SSSR, 1961. 78 p.
(MIRA 14:6)

(Pechora Basin--Frozen ground)

TYUTYUNOV, I. A.,

"Phase transformations of water in soils and nature of its migration in the presence of freezing and windiness"

report to be submitted for the Intl Conference on Permafrost, Purdue Univ.,
Lafayette, Indiana, 11-15 Nov 63

AL'FTAN, E.A. (Leningrad); TYUTYUNOV, I.A., doktor geol.-mineral. nauk;
SHUMSKIY, P.A., doktor geograf.nauk

Luminescence of ice. Priroda 50 no. 3:105-106 Mr '61.
(MIRA 14:2)

1. Institut merzlotovedeniya AN SSSR, Moskva.
(Ice) (Luminescence)

TYUTYUNOV, I.A.

Nature of interior bonds determining the strength of a dispersed ground. Mat. k osn. uch. o merz. zem. kory no.5:14 '60.
(MIRA 13:10)
(Frozen ground)

TYUTYUNOV, I.A.; KUDASHEVA, I.G., red. izd-va; ASTAF'YEVA, G.A..
tekhn. red.

[Introduction to the theory of the formation of frozen rocks]
Vvedenie v teoriyu formirovaniia merzlykh porod. Moskva, Izd-
vo Akad. nauk SSSR, 1961. 106 p. (MIRA 14:5)
(Soil freezing)

TYUTYUNOV, I.A., doktor geologo-mineralogicheskikh nauk, otv. red.;
MAKOVSKIY, G.M., red. izd-va; STRELETSKIY, I.V., tekhn. red.;
MAKUNI, Ye.V., tekhn. red.

[Physical and chemical processes in freezing and frozen rocks]
Fiziko-khimicheskie protsessy v promerzaushchikh i merzlykh
gornykh porodakh. Moskva, 1961. 110 p. (MIRA 14:5)

1. Akademiya nauk SSSR. Institut merzlotovedeniya.
(Frozen ground)

TYUTYUNOV, I.A.

PHASE I BOOK EXPLOITATION

SOV/5834

Akademiya nauk SSSR. Institut merzlotovedeniya

Issledovaniya po fizike i mehanike merzlykh gruntov (Investigations in Frozen-Ground Physics and Mechanics) no. 4, Moscow, 1961. 251 p. Errata slip inserted. 1500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut merzlotovedeniya im. V. A. Sbrucheva.

Resp. Eds.: Z. A. Nersesova and N. A. Tsygovich; Ed. of Publishing House: I. N. Niknayeva; Tech. Ed.: V. V. Volkova.

PURPOSE: This collection of articles is intended for geocryologists and agriculturists.

COVERAGE: The collection was written by staff members of the Institut merzlotovedeniya, AN SSSR -- Institute of Permafrost Studies, AS USSR -- on the basis of their scientific research work conducted at the Laboratory of Physics and Mechanics of Frozen Ground. The articles in the first part
Card 24

Investigations in Frozen-Ground Physics (Cont.)

S07/5834

of the collection deal with the physics of the cryogenic processes. Physical and chemical investigations in this field were based on the "theory of chemical potential" developed by I. A. Tyutyunov, Doctor of Geological and Mineralogical Sciences. The works in the second part of the collection are of considerable interest as they concern problems of mechanics of frozen ground and ice and include important results of investigations in Antarctica dealing with the processes of ice flow and deformation and the structural strength of frozen ground. A new method for calculating the plastic viscous flow of ice-sheets is proposed by S. S. Vyalov; his deductions are based on the data of field observations which he undertook during the second Soviet Antarctic Expedition (1956-1958). References follow each article.

TABLE OF CONTENTS:

Tsytmich, N. A. Foreword	3
SECTION I	
Tyutyunov, I. A. Water Migration in Soils	7
Kozachenko, Z. A. Influence of Exchange Cations on Moisture Migration and Ground Hearing During Freezing	22

Card 2/4

TYUTYUNOV, I.A.

NAME IN WORK EXPEDITION

367/5834

Akademika nauk SSSR, Institut merzlotovedeniya

Zadaniya po fizike i mehanike morslykh grunov (Investigations in Frozen Ground Physics and Mechanics) no. 4, Moscow, 1961. 251 p. Errata slip inserted. 1500 copies printed.

Sponsoring Agency: Akademika nauk SSSR, Institut merzlotovedeniya im. V. A. Bruckava.

Prep. Eds.: Z. A. Nersesova and N. A. Taysovich; Ed. of Publishing House: L. N. Nikulayeva; Tech. Ed.: V. V. Volkova.

PURPOSE: This collection of articles is intended for geocryologists and agriculturists.

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Card #

Investigations in Frozen-Ground Physics (Cont.)

8/7/83b

of the collection deal with the physics of the cryogenic processes. Physical and chemical investigations in this field were based on the "theory of chemical potential" developed by I. A. Tytyunov, Doctor of Geological and Mineralogical Sciences. The works in the second part of the collection are of considerable interest as they concern problems of mechanics of frozen ground and ice and include important results of investigations in Antarctica dealing with the processes of ice flow and deformation and the structural strength of frozen ground. A new method for calculating the plastic viscous flow of ice-sheets is proposed by S. S. Vyslov; his deductions are based on the data of field observations which he undertook during the second Soviet Antarctic Expedition (1956-1958). References follow each article.

TABLE OF CONTENTS:

Tytyunov, N. A. Foreword	3
SECTION I	
Tytyunov, I. A. Water Migration in Soils	7
Sorokin, Z. A. Influence of Exchange Cations on Moisture Migration and Ground Heaving During Freezing	22

Card 244

Investigations in Frozen-Ground Physics (Cont.)	557/5854
Shmelev, P. A. Mechanics of Ice Deformation and Recrystallization	129
Tyulin, S. S. Viscous-Plastic Flow of Ice Sheets and Certain Regularities in the Deformation of Ice	136
Ushakov, K. Ye. Coagulation Forces Between the Face and Frozen Ground	155
Fedorukhina, N. K. Shear Resistance of Permafrost Ground of Varying Textures and Intensity of Freezing	166
Jurdzynska, V. K. Investigation of Tixotropic and Structural-Mechanical Properties of the Vorkuta Peolithic Loams	167
Tsvetkov, I. A. Engineering-Geological Properties of Permafrost Rocks in the Region of the "Mir" Pipe	216
Fedorukhina, N. K. Problems of the Strength of Frozen Ground	242
AVAILABLE: Library of Congress	
Card 4/4	IOL/Ran/ma2 1-16-62

TYUTYUNOV, I.A.

Interaction of the mineral part of soils with water [with summary
in English]. Pochvovedenie no.2:29-38 F '59. (MIRA 12:3)

1. Institut merzlotovedeniya imeni V.A. Obrucheva AN SSSR.
(Minerals in soil) (Soil moisture)

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CIA-RDP86-00513R001857810010-0

TYUTYUNOV, Vladimir Alekseyevich

667.452
.T9

ISPYTANIYA TURBOREAKTIVNYKH AVIATSIONNYKH DVIGATELEY (RESEARCH ON TURBO-REACTION AVIATION ENGINES) MOSKVA, OBORONGIZ, 1956. 138 p. ILLUS., DIAGRS., TABLES.

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KUZ'MIN, Georgiy Anatol'yevich; TYUTYUNOV, V.A., inzh., retsenzent;
YANOVSKIY, I.L., inzh., red.[deceased]; AGEYCHEMA, I.S.,
red. izd-va; RCZHIN, V.P., tekhn. red.

[Design of aircraft engines] Konstruktsiia aviatsionnykh dviga-
telei. Moskva, Oborongiz, 1962. 442 p. (MIRA 16:2)
(Airplanes--Engines)

Tyutymov, Vladimir Alekseyevich; Lovinskiy, Semen Isaakovich

15+1

TABLE OF CONTENTS (abridged):

Foreword -- 3

Introduction -- 5

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810010-0

Part 4. Design of jet engines

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810010-0"

ACCESSION NO. A6200006

SL. 5772 General information on the design of basic components and parts of an

SL. 5773

-1B

TYUTYUNOV, Vladimir Alekseyevich; KOVINSKIY, Semen Isaakovich; NOSOV,
M.V., dots., retsenzent; SUSTOV, L.L., inzh., retsenzent;
POPOV, A.V., inzh., red.

[Aircraft engines] Aviatsionnye dvigateli'. Moskva, Mashino-
stroenie, 1964. 367 p. (HTB 17:10)

1. Moskovskiy aviationskiy institut (for Nosov).

TYUYUNOV, Vladimir Alekseyevich; SERNICHKIN, G.V., inzhener, redaktor;
LOSEVA, G.F., izdatel'skiy redaktor; SHCHEBEAKOV, P.V., tekhnicheskiy redaktor

[Testing turbojet airplane engines] Ispytaniia turboreaktivnykh
aviatsionnykh dvigatelei. Moskva, Gos. izd-vo obor. promyshl.,
1956. 138 p.
(MLRA 10:1)
(Airplanes--Turbojet engines)

KULAGIN, Ivan Ivanovich, professor, doktor tekhnicheskikh; TYUTYUNOV,
V.A., inzhener, retsenzent; KVASENIKOV, L.A., dotsent, kandidat
tekhnicheskikh nauk, redaktor; SOKOLOV, A.I., inzhener, redaktor;
BOGOMOLOVA, M.F., redaktor; ZUDAKIN, I.M., tekhnicheskiy redaktor.

[Theory of turbojet airplane engines] Teoriia aviationsnykh gazo-
turbinnykh dvigatelei. Izd. 2-e, ispr. i dop. Moskva, Gos.izd-vo
oboronnoi promyshlennosti, 1955. 406 p. (MLRA 8:10)
(Airplanes--Turbojet engines)

ALIDZAYEV, Ye.D.; GRISHAYENKO, M.I., otvetstvennyy redaktor; TYUTYUNNIKOVA,
N.A., redaktor izdatel'stva; BEKK, O.G., tekhnicheskiy redaktor.

[Erecting and operating degasification equipment in mines] Montazh
i eksploatatsiya degazatsionnykh ustanovok na shakhtakh. [Moskva]
Ugletekhnizdat, 1957. 125 p.
(Mine gases)
(Coal mines and mining--Safety measures)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810010-0

TYUTYUNNIKOVA, V.A., agronom.

Sowing hybrid clover. Mauka i pered. op. v sel'khoz. 7 no. 4-37-38
Ap '57. (MIRA 10:6)
(Clover)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810010-0"

TYUTYUNOV, Ivan Alekseyevich; MERSESOVA, Z.N., kand.geologo-mineral.
nauk. otw.red.; KOFLYAREVSKAYA, P.S., red.izd-va; POLYAKOVA,
T.V., tekhn.red.

[Processes of the modification and transformation of soils and
rocks at freezing temperatures (chryogenesis)] Protsessy izme-
neniya i preobrazovaniia pochv i gornykh porod pri otritsatel'noi
temperaturre (kriogenetika). Moskva, Izd-vo Akad.nauk SSSR, 1960.
141 p.

(MIRA 13:4)

(Frozen ground)

PAVLOV, A.N., otv. za vypusk; VOLODICHIEVA, V.N.; IVANOVA, A.I.; KULAKOV, I.N.; LYAMINA, T.N.; MIT'KINA, L.I.; POZIMYAKOVA, N.P.; RODIONOVA, L.I.; ROMANOVA, N.M.; SOFIYEV, E.S.; CHICHKINA, A.A.; TRESCHUKOVA, Z.G.; BOGATYREV, P.P.; BROVKINA, A.I.; IVANOVA, L.D.; IVASHKIN, G.A.; KAMNEV, N.I.; LYSANOVA, L.A.; OZHEREL'YEVA, Z.I.; PAVLOVA, T.I.; TYUTYUNOVA, N.I.; UMNITSINA, A.P.; ZHIVILIN, N.N.; ALESHICHEV, M.P.; VINOGRADOV, V.I.; YEREMIN, F.S.; KRAVCHENKO, Ye.P.; LOVACHEVA, M.V.; NIKOL'SKAYA, V.S.; MAKHOV, G.I.; SKEGINA, A.V.; TAREYEV, A.V.; KHOLINA, A.V.; BRYANSKIY, A.M.; BURMISTROVA, V.D.; GRIGOR'YEVA, A.M.; LUTSENKO, A.I.; OREKHOVA, Z.V.; TEPLINSKAYA, N.V.; FEOKTISTOVA, V.I.; BUTORIN, I.M.; BOCHKAREVA, L.D.; BURENINA, V.A.; VETUSHKO, A.M.; VIKHILYAYEV, A.A.; SOROKIN, B.S.; TSYBENKO, L.T.; KHLEBNIKOV, V.N.; DUMNOV, D.I.; STEPANOVA, V.A.; MANYAKIN, V.I., red.; VAKHATOV, A.M.; MAKAROVA, O.K., red.izd-va; PIATAKOVA, N.D., tekhn.red.

[Soviet agriculture; a statistical manual] Sel'skoe khoziaistvo SSSR; statisticheskii sbornik. Moskva, 1960. 665 p.

(MIRA 13:5)

1. Russia (1923- U.S.S.R.) TSentral'noye statisticheskoye upravleniye. 2. Upravleniye statistiki sel'skogo khozyaystva TSentral'nogo statisticheskogo upravleniya SSSR (for all except Makarova, Pyatakova).

(Agriculture--Statistics)

GORSHTEYN, G.I.; TYUTYUYEVA, N.N.

Fractionation of a mixture of trivalent iron in the
processes of crystallization of ammonium sulfate from
aqueous solutions. Radiokhimiia 5 no.1:11-22 '63. (MIRA 16:2)
(Ammonium sulfate) (Crystallization)
(Iron)

TYUVAYEVA, V.A., aspirant

Characteristics of the contractile activity of the uterus
in multiple pregnancy. Akush. i gin. 39 no.5:8-13 8-0 '63.
(MIRA 17:8)

1. Iz kafedry akusherstva i ginekologii (zav. - zasluzhennyy
deyatel' nauki prof. I.I. Yakovlev) I Leningradskogo medi-
tsinskogo instituta imeni I.P. Pavlova.

TYUVIKOVA, L.N.

Salt handling in Cherepovets. Rech.transp. 18 no.9:47-48
S '59. (MIRA 13:2)

1. Starshiy inzhener-tehnolog Cherepovetskogo porta.
(Salt industry) (Cherepovets--Loading and unloading)

SMIRNOVA, L.G., inzh.; TYUVIN, A.V., tekhnik

Application of ultrasonic waves in the dyeing and finishing
operations of the knit goods industry. Nauch.-issl.trudy VNIITP
no.4:59-71 '63. (MIRA 17:4)

SMIRNOVA, L.G.; TYUVIN, A.V., mladshiy nauchnyy sotrudnik

Use of ultrasonic waves for dye dispersion. Tekst.prom.
23 no.1:69-73 Ja '63. (MIRA 16:2)

1. Zaveduyushchiy khimiko-tehnologicheskoy laboratoriye Vsesoyuznogo nauchno-issledovatel'skogo instituta trikotazhnay promyshlennosti (VNIITP) (for Smirnova), 2. Khimiko-tehnologicheskaya laboratoriya Vsesoyuznogo nauchno-issledovatel'skogo instituta trikotazhnay promyshlennosti (for Tyuvin).

(Dyes and dyeing—Textile fibers)
(Ultrasonic waves—Industrial applications)

TYUZNEV, K.I., dotsent; KIRICHENKO, V.I., gornyy inzh.; NIKONOV, A.P.,
gornyy inzh.; CHERNYAYEV, V.I., gornyy inzh.; SONIN, S.D.,
prof.; KILYACHKOV, A.P., dotsent; DUDKO, I.S., gornyy inzh.

Readers' response to A.A. Shamin, A.M. Belenskii and A.V.
Galkin's article "Pillar methods of mining flat dipping seams
without undermining the side walls in development workings."
(MIRA 15:2)
Ugol' Ukr. 6 no.2:36-41 F '62.

1. Novocherkasskiy politekhnicheskiy institut (for Tyuznev).
2. Trest Sovetskugol' (for Dudko). 3. Donetskiy nauchno-issledovatel'skiy ugol'nyy institut (for Kirichenko). 4. Gosudarstvennyy institut po proyektirovaniyu shakhtnogo stroitel'stva kamennougol'noy promyshlennosti (for Nikonov). 5. Ukrainskiy filial Vsesoyuznogo nauchno-issledovatel'skogo marksheyderskogo instituta (for Chernyyayev). 6. Moskovskiy gornyy institut (for Sonin, Kilyachev).

(Coal mines and mining)
(Shamin, A.A.) (Belenskii, A.M.) (Galkin, A.V.)

TYUZNEV, K.I.

New support unit for stopes. Trudy NPI 101:81-85 '60.
(MIRA 15:5)

(Donets Basin—Stoping (Mining))
(Donets Basin—Mine timbering)

TYUZNEV, M.F.

Trilesy Distillery is an enterprise of communist labor. Spirt.prom.
29 no.5:6-8 '63. (MIRA 17:2)

1. Trilesskiy spirtovoy zavod.

ASHKINUZI, Z.K.; YEGOROV, A.S.; MAMUNYA, A.U.; MAGICHENVA, A.I.;
SYCH, P.K.; TYUZHNEV, M.F.

Continuous cooking at the Trilesskiy Alcohol Plant.
Spirit.prom. 26 no.4:15-19 '60. (MIRA 13:8)
(Kiev--Alcohol)

PANFEROV, K.V., kand.tekhn.nauk; TYUZNEVA, O.B., inzh.

Study of the physicomechanical properties of wood fiber
blocks. Trudy TSNIISK no.11:379-406 '62. (MIRA 15:9)
(Hardboard--Testing)

TYUZNEVA, O.B., inzh.

Effect of temperature and moisture on the strength of wood fiber
boards. Bum.prom. 37 no.6:19 Je '62. (MIRA 15:6)

1. Laboratoriya plastmass TSentral'nogo nauchno-issledovatel'skogo
instituta stroitel'nykh konstruktsiy Akademii stroitel'stva i
arkhitektury SSSR. (Hardboards—Testing)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810010-0

GUBENKO, A.B.; GODILO, P.V.; PANFEROV, K.V.; TYUZNEVA, O.B.

Use of wood fiber blocks in three-layer glued elements. Stroi. mat.
(MIRA 14:11)
7 no.9:37-39 S '61.
(Wallboard)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810010-0"

TYVANTCHUK, D

P

N/5
755.34
.79

Die Planung der Generalreparatur im Eisenbahnwesen. Leipzig, Fachbuchverlag, 1953.

118 p. tables.

Translation from the Russian, "Planirovaniye kapital'nogo remonta na zhe-leznodorozhnom transporte," Moscow, 1951.

At head of title, "Hrsg. von der Lehrmittelstelle der Deutschen Reichsbahn."

PAGE I BOOK INFORMATION

SOV/SS9

Kompleksnoye rehodnichatel'ye i avtomatizatsiye proizvodstva. Is cherya soderzhaushaya perevod s oryginala (Overall Industrial Mechanization and Automation; From Experience of Factories Under the Penna Council of the National Economy) [Penza] Penzauch. Knizhnye izd-vo, 1959. 230 p. Izravna slizh inserted. 2,000 copies printed.

Ed.: V. Tarkov; Tech. Eds.: Ye. Vorob'yov.

PURPOSE: This collection of articles is intended for the general reader interested in the mechanization and automation of machine-tool production.

COVERAGE: The efforts of industrial workers of the Penza district to fulfill ahead of time the objectives set forth in the Seven Year Plan are discussed in these 11 articles. The need for complete automation in the production of machine tools and instruments is strongly emphasized. No probabilities are mentioned. There are no references.

TABLE OF CONTENTS:

HIGH-EFFICIENCY PROCESS EQUIPMENT

Rezervirin, V.S. [Engineer]. Numerical Control of Metal-Cutting Machine Tools	90
Borodov, A.I. [Candidate of Technical Sciences]. Peremodeling and the Automation of Machine Tools in Small-Size Production	110
Dorofin, P.I. [Postgraduate] from Gor'kiy - as Important Link in the Comprehensive Mechanization and Automation in Machine Manufacturing	124
Vorob'yov, Yu.L. [Engineer]. V.M. Obrabotka [Engineer], and E.M. Fritsch [Engineer]. Rationalization of Work in the Clever's Department of Factory Services. The Overall Development in Production Techniques	132
Gor'kin, I.A. [Candidate of Technical Sciences], and E.A. Kuznetsov [Engineer]. Method of Processing Parts Grouped According to the Type of Operation Should be Used at Local Plants	159
Kargin, I.Z., and V.P. Evdokimov. On the Road of Technical Progress	200
Rubtsova, A.V. [Candidate of Chemical Sciences]. Raise the Level of Electrochemical Processes, Reduce Metal Waste	217
Polyakov, A.A. [Economist]. Group and Individual Shock Workmen of Communist Labor Should Get Constant Professional Technical Assistance	221
AVAILABILITY: Library of Congress	

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8-12-68

Card 3/3

82684

S/123/60/000/008/004/017
A004/A001

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Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1960, No. 8, p. 63,
37744

AUTHORS: Tyuvakin, P.I., Savkov, V.M.

TITLE: Gang-Machining of Components

PERIODICAL: Prom.-ekon.byul.Penzensk, sovmarkhoz, 1958, Nos. 5-6, pp. 44-51

TEXT: The authors give a report on the practice of Leningrad plants, where after the introduction of gang-operation methods the labor productivity on turret lathes increased by 40-50%, on lathes by 20-30% and on milling machines by 25-30%. Average savings per year for each machine tool amounted to 15,000 rubles. Thus at the zavod im. Kozitskogo (Plant im. Kozitskiy) 900 items were combined in 35 structural technological groups. At the optiko-mekhanicheskiy zavod (Optical-Mechanical Plant) nearly 1,000 components are machined in 65 gang fixtures. By the end of 1959, the method of gang machining of components will be introduced in 42 Leningrad enterprises. It is planned to extend this method also to the stamping of components. The gang-machining method should be applied if the lot of components to be manufactured of every group ensures at least one month's

Card 1/2

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Gang-Machining of Components

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work for every machine tool. In individual cases also a 10-15 days load of the machine tool would be economically justified. The preparation for gang-machining consists of the following stages: the compiling of a classification which unites all components according to shape and nature of tooling, and the selection of a "complex" component for the gang; the development of a standard technological process for the "complex" components of a gang; designing of gang jigs, modernization and specialization of equipment. The authors present methods for the calculation of equipment loads and final correction of the technological process. They recommend the following structure of the manufacturing selection: 4-7 working crews with 10-15 workers each, headed by an instructor and crew-foreman, 5 inspectors and 2 distributors, two-shift operation, 2 shift-masters and 1 supervisor. Each machine tool should be fitted with a set of technological equipment which is kept in a locker near the machine tool. It is recommended to simplify the ganging of components which, in some plants, amount to tens of thousands of items and to use a decimal numbering of drawings, which would make it possible to group components and assembling according to classes, groups, subgroups and kinds. There is 1 photo.

Translator's note: This is the full translation of the original Russian abstract.

B.I.M.

Card 2/2

PANFEROV, K.V.; TYUZNEVA, O.B.

Water and moisture absorption and swelling of fiberboards.
Bum. prom. 36 no.11:14-16 N '61. (MIRA 15:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh
konstruktsiy Akademii stroitel'stva i arkhitektury SSSR.
(Hardboard)

BELYUNOV, S.A., inzh.; DMITRIYEV, V.I., dots., kand. ekon. nauk; KUCHURIN, S.F.; LIN'KOV, M.V.; MULYUKIN, F.P.; NEDOPEKIN, G.K., inzh.; PUZYNYA, I.Ye., inzh.; RAYKHER, G.Kh., inzh.; TRUBACHEV, T.Ye., inzh.; TYVANCHUK, D.P., inzh.; UMBLIYA, V.E., kand. ekon. nauk; KHOKHLOV, N.F., dots. kand. ekon. nauk; CHUDOV, A.S., prof., doktor ekon. nauk; ERLIKH, V.S., inzh.; IVLIYEV, Ivan Vasil'yevich, red.; KRISHTAL', L.I., red.; KHITROV, P.A., tekhn. red.

[Planning in railroad transportation] Planirovanie na zhelezodorozhnom transporte; spravochnik. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniie, 1961. 470 p. (MIRA 14:11)
(Railroads—Management)

TYVANCHUK, D

P

N/5
755.34
.T92

Planirovaniye kapital'nogo remonta na zheleznodorozhnom transporte

[The planning of railroad overhauling] Moskva, Transzheldorizdat, 1951. 12?

P. Tables.

BABELYAN, V.B.; VINNICHENKO, N.G., kand. ekon. nauk; GNEDASH, G.N.;
GRIGOR'YEV, A.N.; DANILOV, N.K.; IVANOV, A.P.; IVLIYEV, Ivan
Vasil'yevich; POTAPOV, I.A.; TRUBIKHIN, M.G., kand.ekon. nauk;
TUKHOVITSKAYA, L.K., inzh.; TYVALCHUK, D.P., inzh.; SHERMAN,
A.Ya.; SHCHERBAKOW, P.D., inzh.; EVENTOV, G.S.; KRISHTAL', L.I.,
red.; MAKUNI, Ye.V., tekhn. red.

[Financing in railway transportation; manual] Finansirovaniye na
zheleznodorozhnom transporte; spravochnik. Pod obshchey red. I.V.
Ivlieva. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-ya
putei soobshcheniya, 1962. 422 p. (MIRA 15:4)
(Railroads—Finance)

TYVANCHUK, D.P., inzhener; MULYUKIN, F.P., retsenzent; TVERSKOY, K.N.,
retsenzent; BABKIN, A.P., redaktor; KRYSHTAL', L.I., redaktor
KHITROV, P., tekhnicheskiy redaktor

[Planning major railroad overhauling] Planirovanie kapital'nogo
remonta na zhelezodorozhnom transporte. Moskva, Gos. transp.
zhel-dor, izd-vo, 1951. 122 p. [Microfilm] (MLRA 10:2)
(Railroads--Maintenance and repair)

Tyvanchuky, N. V.

Die Planung der Generalreparatur im Eisenbahnwesen. Leipzig, Fachbuchverlag, 1953.
118 p. tables.

Translation from the Russian, "Pianirovaniye kerital'nogo remonta po zheleznoy moshchosti Transporta," Moscow, 1951.

At head of title, "Hrsg. von der Lehrmittelstelle der Deutschen Reichsbahn."

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.T9

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810010-0

KOBRINSKIY, A.Ye. (Moskva); TYVES, L.I. (Moskva)

Dynamics and stability of systems containing two percussion pairs.
Mashinovedenie no.4:3-16 '65. (MIRA 18:8)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810010-0"

L 27923-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) BC

ACC NR: AP6017759

SOURCE CODE: UR/0380/65/000/004/0003/0015

AUTHOR: Kobrinskiy, A. Ye. (Moscow); Tyves, I. I. (Moscow)

ORG: none

TITLE: Dynamics and stability of systems containing two impact pairs

SOURCE: Mashinovedeniye, no. 4, 1965, 3-16

TOPIC TAGS: control system stability, perturbation

ABSTRACT: As a rule, the construction of an adequate dynamic model of a vibroimpact system presents no difficulties, and its investigation permits the most important properties and behavior of the system to be studied. However, the mechanisms of machines, instruments and control systems may contain several colliding elements, as well as a large number of kinematic pairs whose construction causes certain nominal clearance values, and it is by no means always possible to construct a simple dynamic model enabling the most important properties of an initial system to be ascertained and studied. Accordingly, existing methods of investigating the dynamics and stability of vibroimpact systems are limited in this sense and require further development. The present article shows the possibility of generalizing developed methods for the analysis of dynamics and stability in the case of systems containing two impact pairs. The article begins by discussing questions involved in the construction of dynamic models

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ACC NR: AP6017759

of such systems, including the definition of the terms impact pair ("a set of two elements of a vibroimpact system which move with collisions"), open systems (systems which "contain elements entering into only one impact pair") and closed systems (systems "where each of the elements enters into two impact pairs"). The article then considers the dynamics of a three-mass symmetric system containing two impact pairs and, by the method of alignment using the apparatus of finite differences, investigates the stability of periodic motions in relation to small perturbations. Orig. art. has: 25 formulas and 10 figures. [JPRS]

SUB CODE: 13 / SUBM DATE: 02Apr65 / ORIG REF: 003

Card 2/2 BLG

Rate of formation of fumaric acid in malic acid. P. HOMESTEAD¹ and E. TÝMÁŘ² (Csl. Česk. Chem. Čas., 1930, 2, 77-83).—Heyrovský's polarographic method has been applied to the determination of fumaric acid in the mixture resulting from the "boiling" of malic acid. The sensitivity of the oxidation currents towards slight changes in the rate of dropping of the cathodic mercury was overcome by reducing on the same polarogram the rate of fall of the reduction currents in the solution under analysis and in a mixture containing a known amount of fumaric acid. Measurements were made at 157° and 157 $\frac{1}{2}$. The fumaric mass becomes turbid when more than 20% of fumaric acid has been formed. From a study of the loss of water from the mass and from solubility changes it is found that the production of fumaric and maleamic acids is simultaneous. The velocity of formation of fumaric acid in a mixture of 47.00% of malic acid and 2.94% of fumaric acid is $1.68 \times 10^{-4} \text{ g. } 157^\circ$ and $6.97 \times 10^{-4} \text{ g. } 157\frac{1}{2}$. The oxidation current becomes approximately 10,000 $\mu\text{A}/\text{cm}^2$. The coefficient for the velocity constant $A = 10^{14} \times e^{-\nu E/RT}$ is of the same order as those found for other unimolecular reactions.

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GENERAL ALTERNATIVE CLASSIFICATION

— 24 —

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Z

PROCESSES AND PROPERTIES INDEX

The rate of formation of fumaric acid in molten malic acid. P. HIRASYEMENKO AND Z. TIVODUK, Collection Czechoslov. Chem. Comm., 2, 77-82(1930) -- The polarographic method (C. A. 22, 42, 1927) was used for the detn. of the amt. of fumaric acid formed in molten malic acid at 137° and 117°. Malonic acids and possibly anhydrides are formed simultaneously but these reactions have no influence on the rate of formation of fumaric acid. The formation of fumaric acid is a homogeneous unimol reaction; the velocity const. is $10^4 \times e^{-\frac{3700}{RT}}$, and the coeff. (100), which is independent of temp., approximates that observed in the majority of other unimol reactions. A. F. SHIPARD

S

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

L 11331-67 EWT(d)/EWT(1)/EWT(m)/EWP(k)/EWP(h)/EWP(l)/EWP(v) WW/DJ
 ACC NR: AP6035921 SOURCE CODE: UR/0413/66/000/020/0173/0174
 INVENTOR: Gurevich, E. Z.; Tyvorskaya, R. I.; Fel'dman, A. I.

22
21

ORG: none

TITLE: Self-sealing control valve. Class 47, No. 187464

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966,
 173-174

TOPIC TAGS: valve, rotating seal, flow control

ABSTRACT: The proposed control valve contains a housing and a disk shut-off element and a seat, which are positioned perpendicular to the liquid flow. To simplify the

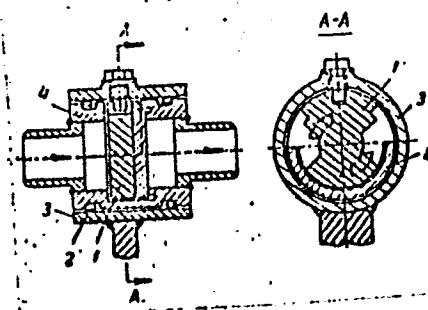


Fig. 1. Self-sealing valve

1 - Shut-off element; 2 - seal; 3 - rotating sleeve; 4 - valve housing.

UDC: 621.646.47: :621.646.621

Card 1/2

TYWONSKI, K.

Geografia W Szkole - Vol. 7, no. 6, Nov./Dec. 1954.

Instrument indicating the location of the sun. p. 308.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810010-0

TYYLEKOVA, M.F.

In the scientific and technical council of the Ministry of Agriculture
of the U.S.S.R. Veterinaria 36 no.3:91-94 Mr '59. (MIRA 12:4)
(Cattle--Diseases and pests)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810010-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810010-0

TYZACK, C., ZBORIL, J. [translator]

Zirconium and its alloys. Jaderná energie 4 no.4:107-108
Ap '58.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810010-0"

PA 44/49T50

TYZHEV YU. L.

USSR/Engineering
Power Supplies
Chemical Plants

"Contemporary State and Prospects of Utilizing
Secondary Power Resources in Enterprises of the
Ministry of Chemical Industry," Yu. L. Tyzhev,
Chief Engr, Min of Chem Ind USSR, 3 pp

"Prom Energet" No 3

Discusses use of secondary power resources in
production of carbon disulfide, nitric acid,
paints and lacquers, sulfuric acid, and in
organic synthesis. Considers problems of using

Mar 49

44/49T50

USSR/Engineering (Contd)

heat of condensate, exhaust steam, and reactions,
with eight diagrams.

Mar 49

44/49T50

TYZHNOK, A. S.

TYZHNOK, A.S.

Practical summer studies in biology in the school garden. Est.
v shkole no.3:38-42 My-Je '54. (MLRA 7:7)

1. Uchitel' shkoly no.2 g. Verkhney Pyshmy, Sverdlovskoy oblasti.
(Botany--Study and teaching) (School gardens)

TYZHNOV, A. S.

Gardening - Study and Teaching.

Organizing school gardens and courses in gardening. Est. v shkole no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1959/2 Uncl.

TYZHNOV, A. S.

Gardening - Study and Teaching

Organizing school gardens and courses in gardening. Est. v shkole No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1952 1953, Uncl.

TYZHNOV, A. S.

School Gardens

Organizing school gardens and courses in gardening. Est. v shkole, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1952 1958, Uncl.

TYZHNOV, A. S.

SCHOOL GARDENS.

Organizing school gardens and courses in gardening. Est. v shkole, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1958, Uncl.

VOLKOVA, I. B.; NALIVKIN, D. V.; SLATVINSKAYA, Ye. A.; BOGOMAZOV, V. M.; GAVRILOVA, O. I.; GUREVICH, A. B.; MUDROV, A. M.; NIKOL'SKIY, V. M.; OSHURKOVA, M. V.; PETRENKO, A. A.; POGREBITSKIY, Ye. O.; RITENBERG, M. I.; BOCHKOVSKIY, F. A.; KIM, N. G.; LUSHCHIKHIN, G. M.; LYUBER, A. A.; MAKEDONTSOV, A. V.; SENDERZON, E. M.; SINITSYN, V. M.; SHORIN, V. P.; BELYANKIN, L. F.; VAL'TS, I. E.; VLASOV, V. M.; ISHINA, T. A.; KONIVETS, V. I.; MARKOVICH, Ye. M.; MOKRINSKIY, V. V.; PROSVIRYAKOVA, Z. P.; RADCHENKO, O. A.; SEMERIKOV, A. A.; FADDEYEVA, Z. I.; BUTOVA, Ye. P.; VERBITSKAYA, Z. I.; DZENS-LITOVSAYA, O. A.; DUBAR', G. P.; IVANOV, N. V.; KARPOV, N. F.; KOLESNIKOV, Ch. M.; NEFED'YEV, L. P.; POPOV, G. G.; SHTEMPEL', B. M.; KIRYUKOV, V. V.; LAVROV, V. V.; SAL'NIKOV, B. A.; MONAKHOVA, L. P. [deceased]; MURATOV, M. V.; GORSKIY, I. I., glav. red.; GUSEV, A. I., red.; MOLCHANOV, I. I., red.; TYZHNOV, A. V., red.; SHABAROV, N. V., red.; YAVORSKIY, V. I., red.; REYKHERT, L. A., red. izd-va; ZAMARAYEVA, R. A., tekhn. red.

[Atlas of maps of coal deposits of the U.S.S.R.]Atlas kart ugle-nakoplenii na territorii SSSR. Glav. red. I. I. Gorskiy. Zam. glav. red. V. V. Mokrinskii. Chleny red. kollegii: F. A. Bochkovskiy i dr. Moskva, Izd-vo Akad. nauk SSSR, 1962. 17 p.

(MIRA 16:3)

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red.; KUZNETSOV, I.A., red.; MIRONOV, K.V., red.;
MOLCHANOV, I.I., red.; NEKIPELOV, V.Ye., red.; PONOMAREV,
T.N., red.; POPOV, V.P., red.; PROKHOROV, S.P., red;
SKROBOV, S.A., red.; TYZHNOV, A.V., red.; SHABAROV, N.V.,
red.; YAVORSKIY, V.I., red.; BOBRYSHEV, A.T., red. toma;
VINOGRADOV, B.G., red. toma; VOLKOV, K.Yu., zam. red. toma;
LUGOVYY, G.I., zam. red. toma; OGARKOV, V.S., red. toma;
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7.72 H Nov. A.V.

AUTHOR: Tyzhnov, A.V.

132-11-4/7

TITLE: Study of Coal Deposits During the Past 40 Years (Izuchenije ugol'nykh mestorozhdenij za 40 let)

PERIODICAL: Razvedka i okhrana nedor, 1957, No 11, pp 27-36 (USSR)

ABSTRACT: In 1913, the basic coal resources of Russia were estimated to amount to 231 billion tons, of which 93% were located in the Irkutsk, Donets and Kuznetsk basins. At that time, the output amounted to 2.6% of the output of the world. Although several new coal deposits were discovered (Donbass, Pechora, Podmoskovny basin, Chelyabinsk, Markay, and in Sakhalin) development of coal mining was slow till 1930. At the 3rd Coal Conference held in 1930, Russian coal resources were estimated to amount to 640 billion tons. Till 1941, the following areas were evaluated: Karaganda, Donbass, Kuzbass, Podmoskovny basin, Vorkuta, Pechora. Besides, new coal-bearing territories were discovered at the Kansko-Achinsk and Irkutsk basins; the Bukachanskoye deposit at Transbaykal; the Kivda-Raychikhinskoye deposit and Bureinskoy basin in the Far East. According to the "Five-Year Plan for Industrial Development" set up in 1946, it was planned to produce 250 million tons of coal in 1950 and 500 million tons in 1960. After World War II

Card 1/6

Study of Coal Deposits During the Past 40 Years

132-11-4/7

large scale prospecting was carried out in the Donets-Dnepropetrovsk, L'vov-Volyn', Podmoskovnyy and South Ural basins, as well as in territories of the Ural, Kazakhstan, Kuzbass, the Far East, and Sakhalin. Further prospecting was conducted in the Zhitomir, Kiyev, Kirovograd, Zaporozhye, Novo-Aleksandrovskoye, Sinel'nikovo and other areas. The main achievement of geologists in the Donbass huge coal bearing area was the establishment of exact boundaries extending north, as a result of which the coal resources were estimated to amount to 30 billion tons. It was established by prospecting that the Podmoskovnyy basin extended as far east as the Ryazan, Kaluga and Smolensk oblast's. Systematic prospecting and geologic surveying of the Pechora basin disclosed coal deposits in excess of 100 million tons up to a depth of 600 m. During and after World War II the Khal'meryuskoye, Verkhne-Syryaginskoye, Usinskoye, Yun'yaginskoye and Seydenskoye deposits of coking and fat-coal were discovered. Re-evaluation of coal deposits of the Chelyabinsk basin raised the estimated coal resources from 25 million tons in 1945 to 47 million tons in 1956. Of great importance, especially during the last war, was the Kizelovskiy hard coal basin. Good results from prospecting were obtained in southern Ural, and in the Bashkir ASSR where

Card 2/6

Study of Coal Deposits During the Past 40 Years

132-11-4/7

new deposits of brown coal were found, estimated at 1.76 billion tons. Further large deposits of brown coal were discovered in the Orak depression, and at present prospecting operations are being carried out in the north Sos'vinsk coal bearing region. To meet the fuel requirements of the Ural, the adjacent areas of Kazakhstan, in the first place the Kustanay oblast', are of primary importance. As a result of extensive geophysical prospecting, large deposits were found in the Ubagan basin, estimated at 36 billion tons. Coal resources of the Karaganda basin were estimated at 51 billion tons. Large coal deposits suitable for open pit mining were discovered in the Yekibastuzskiy and the Shoptykul'skiy oblast's. Detailed prospecting was conducted during the First 5-Year Plan in the Prokop'yevsko-Kiselevskiy, Leninskiy, Osnovskiy, Aralichevskiy and partly in the Kemerovskiy and Anzhero-Sudzhenskiy rayons of the Kuznetsk basin. Large deposits for open pit mining were discovered in the Bachatskiy, Kemerovskiy, and Yerunakovskiy rayons. The supply of coking coal was increased by resources found in the Baydayevskiy, Biryulinskiy, Kozlinskiy, Nikitinskiy and Shushkul'skiy rayons adjacent to the Tom'-Usinskiy rayon. The total coal deposits of the Kuznetsk basin are estimated at present at 905

Card 3/6

Study of Coal Deposits During the Past 40 Years

132-11-4/7

billion tons. Huge deposits of brown coal were found in the Kansko-Achinskiy basin suitable for surface mining, with total deposits estimated to amount to 234 billion tons of grade C₂ coal (basically to depth of 300 m). Prospecting of the Kokuy-skoye deposit in the Angarsk rayon of the Tunguska basin was completed. Seams of this deposit of long-flame coal with low and medium ash contents are 50 - 60 m thick. Prospects of the Minusinskiy basin of high grade hard coal improved considerably. Adjacent to the Chernogorsk depression, prospecting was carried out at the Izykhskoye, Sosnovo-Ozerskoye and Askyskoye de-posits. During the last years deposits of the Ulukhemskiy basin and other deposits of the Tuvin'skaya autonomous oblast' were carried out. Up to World War II prospecting work con-centrated on the Cheremkhovo deposit, Irkutsk basin, while ad-jacent areas were not studied. During the last decade, the Azeyskoye, Karantsayskoye, Novo-Metelkinskoye deposits were examined, which were found to be suitable for large scale open pit mining operations. At the Transbaykal, prospecting was conducted mainly on deposits formerly known, of which the Gusino-Ozerskoye and the Kharanorskoye brown coal deposits are the largest. Extensive deposits of hard coal were located during the past years in the Tunguyskaya valley. High grade

Card 4/6

Study of Coal Deposits During the Past 40 Years

132-11-4/7

coking coal deposits were found in the Yuzhno-Yakutsk basin which extends north of the Stanovoy range from the upper course of the Aldana river to the Toko lake. Prospecting has essentially increased the known coal resources in the Far East, after the Maykhinskoye, Bikinskoye, Rettikhovskoye, Khabarovskoye and other deposits raised the output of this area. Prospecting work on the Sakhalin island has disclosed large coal deposits, ranging from brown coal to anthracite. Of greatest importance in Central Asia are the large Angren lignite deposits, suitable for open pit mining, which are at present the basic coal resources of the Uzbek SSR. Mention must be made of the new coal-bearing eastern Fergana basin in the Kirgiz SSR, the Fan-Yagnobskoye deposit in the Tadzhik SSR and the group of coal deposits at Kara-Kichinskaya of the northern part of the Kirgiz SSR. Prospecting of coal deposits in northern and north eastern Siberia conducted by the Arctic Scientific Research Institute (N I I G A) permitted to evaluate the Lena, Tunguska, Taymyr, Zyryan and other basins. Here are, according to the latest estimates, concentrated up to 60% of all geologic resources of the USSR, whereby the Lena basin is not only the largest coal basin of the USSR, but of the globe. As a result of prospecting conducted during 1954-1957, the coal

Card 5/6

Study of Coal Deposits During the Past 40 Years

132-11-4/7

resources of the USSR were estimated to amount to 8.6 trillion tons (USA in 1937 - 3.8 trillion). The author publishes a table, on which the quantities of coal of the various deposits are listed. In accordance with the degree of evaluation, from the total resources are deducted the actual resources (categories A₂+B+C₁) amounting to 223 billion tons or 6%, and the likely resources (category C₂) amounting to 862 billion tons, or 23% of the total resources at a depth of 600 m. At the present time, the deposits of the coal fields which are being mined or are being prepared for exploitation amount to 80 billion tons, which is a very small percentage of the total coal resources available at a depth of 600 m. Geologic surveying and mapping at a scale 1 : 1,000,000 and of larger scales for separate industrial districts is nearing completion. The total coal-bearing area of the USSR amounts to 2 million sq km, which constitutes approximately 8 - 10% of the total territory of the USSR.

ASSOCIATION: Ministry of Geology and Conservation of Natural Resources of the USSR
(Ministerstvo geologii i okhrany nedor SSSR)

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Card 6/6

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